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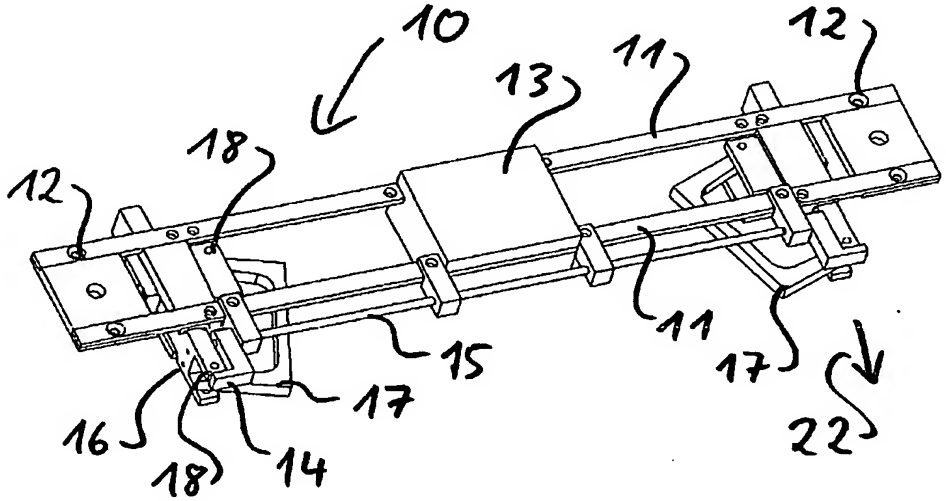
(54) Title: SEAT COMPONENT TO PREVENT WHIPLASH INJURY



(57) Abstract: A seat component to prevent whiplash injury during a rapid motion change of a vehicle comprises means allowing a displacement of the seat and a person sitting thereon backwards (22) in relation to the direction of movement at the motion change. These means comprise a body (11, 18) to be affixed to or being part of the seat, a slide element (16) affixed to the vehicle and being in guiding contact with said body to guide a translational displacement of the seat over a predetermined distance. It further comprises a trigger system (13) to detect a acceleration threshold, a release mechanism (14) controlled through the trigger system (13) to enable said translational displacement (22) and a damping component (17) to damp said translational displacement (22). The trigger system (13) opens the release mechanism (14) only upon detection of an acceleration value above a predetermined threshold. The NIC experienced when using a conventional seat can be reduced by 40% if said seat is equipped with the device according to the invention.

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